ABSTRACT

A self-control traveling system for an expressway and a method for controlling the same is disclosed. A plurality of road signs are consecutively installed at left and right sides of the expressway. An imaging device images the road signs arranged along the expressway. An image processor analyzes at least one image, discriminates the roadside signs and reads sign contents contained in the roadside signs. A navigation database stores map information of the expressway. An artificial intelligence-electronic control unit determines a current position and a road state on the basis of the map information stored in the navigation database and the sign contents read by the image processor. An integrated ECU controls a steering operation, a speed decrement/increment operation and others associated with the self-control traveling operation according to a result of the determination.